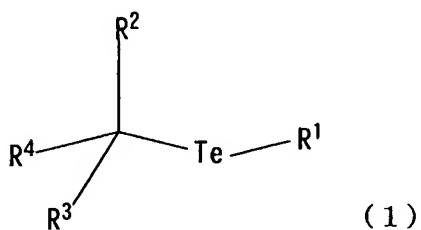
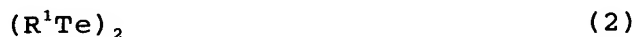


## CLAIMS

1. A process for producing a living radical polymer characterized in that a vinyl monomer is polymerized with use of an organotellurium compound represented by the formula (1), an azo type polymerization initiator and a ditelluride compound represented by the formula (2)



wherein  $R^1$  is  $C_1$ - $C_8$  alkyl, aryl, substituted aryl or an aromatic heterocyclic group,  $R^2$  and  $R^3$  are each a hydrogen atom or  $C_1$ - $C_8$  alkyl, and  $R^4$  is aryl, substituted aryl, an aromatic heterocyclic group, acyl, oxycarbonyl or cyano.



wherein  $R^1$  is the same as above.

2. A living radical polymer obtainable by polymerizing a vinyl monomer with use of an organotellurium compound represented by the formula (1), an azo type polymerization initiator and a ditelluride compound represented by the formula (2).

3. A mixture of an organotellurium compound represented by the formula (1), an azo type polymerization initiator and a ditelluride compound represented by the formula (2).